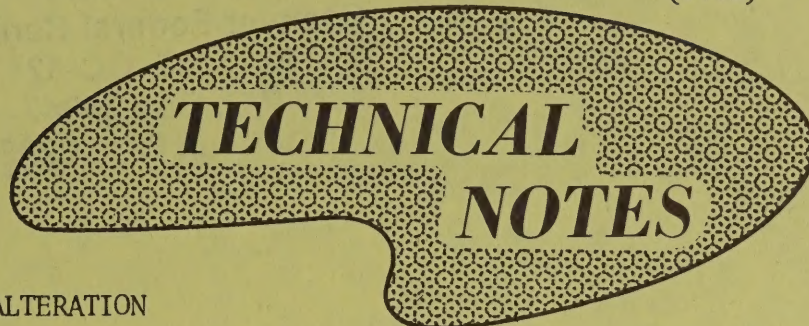


PORTLAND SERVICE CENTER

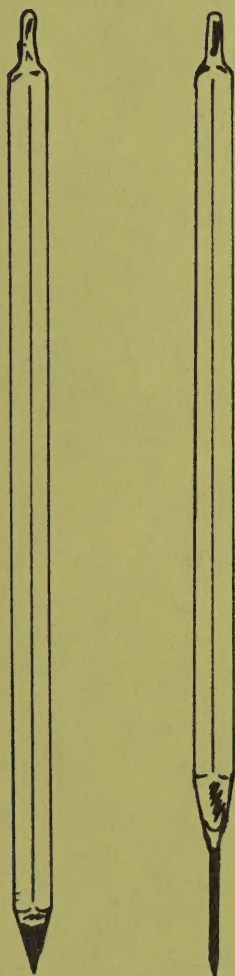
Portland, Oregon

9140
(P732)

JACOB STAFF ALTERATION

July 12, 1967

The blunt point on a standard Jacob's Staff does not allow it to penetrate dry hard ground sufficiently to provide a sturdy base for a compass. This has generally limited their usefulness to the wet winter months in most locations.



BEFORE

AFTER

There are several ways to solve this problem, and this Technical Note illustrates a particularly satisfactory solution recently submitted as an Employee Suggestion, No. BLM-P-67-96. The alteration consists of welding a sharpened $\frac{3}{8}$ inch by 5 inch steel shank onto the blunt point of the staff.

Although modified garden hoes are commonly used for mounting the compass, the welding of a sharpened steel shank onto the Jacob's Staff is less expensive and more satisfactory.

BLM Library
Denver Federal Center
Bldg. 85, OC-521
P.O. Box 25047
Denver, CO 80225